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DB=USPT; PLUR=YES; OP=OR

L34 5455932.pn.

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L19 5307481.pn.

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<u>L18</u>	5307481.pn.	1	<u>L18</u>
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<u>L10</u>	5978565.pn.	2	<u>L10</u>
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<u>L5</u>	L3 and mass near stor\$	16	<u>L5</u>
<u>L4</u>	L3 and mass near stor\$ near device	3	<u>L4</u>
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<u>L2</u>	L1 and (first near server or first near mirror near engine)	131	<u>L2</u>
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L5: Entry 11 of 16

File: PGPB

Nov 1, 2001

PGPUB-DOCUMENT-NUMBER: 20010037371
PGPUB-FILING-TYPE: new
DOCUMENT-IDENTIFIER: US 20010037371 A1

TITLE: Mirroring network data to establish virtual storage area network

PUBLICATION-DATE: November 1, 2001

INVENTOR-INFORMATION:

NAME	CITY	STATE	COUNTRY	RULE-47
Ohran, Michael R.	Orem	UT	US	

APPL-NO: 09/ 892161 [PALM]
DATE FILED: June 26, 2001

RELATED-US-APPL-DATA:

Application 09/892161 is a continuation-in-part-of US application 09/271585, filed March 18, 1999, PENDING

Application 09/271585 is a continuation-of US application 08/848139, filed April 28, 1997, US Patent No. 5978565

INT-CL: [07] G06 F 15/167

US-CL-PUBLISHED: 709/214; 709/232

US-CL-CURRENT: 709/214; 709/232

REPRESENTATIVE-FIGURES: 1

ABSTRACT:

Mirroring data to provide a virtual storage area network using policing protocols and mirror engines without a physical shared storage node. The mirror engines are found at each server computer in the network in order to mirror the data between mass storage devices of the servers as the servers receive and execute write operations, which results in each mass storage device containing the same stored data. The policing protocols prevent data corruption by not allowing more than one server at a time write to a file of data. If one server experiences failure and is incapable of providing access to network data, the other server or servers can service all read requests, since all network data is accessible by all servers. Unlike conventional storage area networks, there is no physical shared storage node and, accordingly, the costs of obtaining and operating the virtual storage area network are relatively small.

RELATED APPLICATIONS

[0001] This application is a continuation-in-part of U.S. patent application Ser. No. 09/271,585, entitled "Operation of Standby Server to Preserve Data Stored By a

Network Server," filed Mar. 18, 1999, which is a continuation of U.S. patent application Ser. No. 08/848,139, filed Apr. 28, 1997, entitled "Method for Rapid Recovery from a Network File Server Failure Including Method for Operating Co-Standby Servers," now issued as U.S. Pat. No. 5,978,565. The foregoing patent and patent application are incorporated herein by reference.

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